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DIAPER CONSTRUCTION

FRANCELLA HENDERSON

## DIAPER CONSTRUCTION

1 1. Field of the Invention

The present invention relates generally to a  
diaper construction, and, more particularly, to a  
combination of a throw-away diaper insert and an  
5 infant's diaper wrap.

SUMMARY

The type of garment with which the insertable  
throw-away diaper to be described is most  
10 advantageously employed is what is termed a diaper wrap  
which includes a pants-like garment separable at both  
sides in order to enable laying out in a flat  
condition. Other garments that may be used for this  
purpose include training pants, pajamas or any other  
15 pant-like garment separable at the sides by buttons,  
snaps, zippers or other releasable fastening means  
enabling the garment to be opened to a relatively flat  
condition. When laid out flat the garment has an  
inside surface and an outside surface, and is of  
20 generally elongated rectangular shape with two  
centrally located inwardly curved side portions which  
adapt to the infant's legs when worn by the infant. At  
the four corner portions on the inner surface there are  
provided hook and loop connector parts spaced inwardly  
25 from the lateral edges. A second pair of hook and loop  
connector parts are secured to the inner surface of the  
garment just outwardly of the first described hook and

1 loop connectors at one end of the garment. At the  
 other end of the garment on the outer surface of the  
 garment, there are provided further complementary hook  
 and loop connectors adjacent each lateral side of the  
 5 garment for mating with the two opposite end internal  
 connector parts of the garment.

The insert is of similar geometry to the  
 garment and is constructed of multiple layers of an  
 absorbent material which has the advantageous property  
 10 of absorbing and not wetting the garment.  
 Additionally, the diaper insert has an inner surface  
 (i.e., surface to contact the infant) and an outer  
 surface which on assembly contacts the inner surface of  
 the garment. At the four corner portions of the outer  
 15 surface of the insert there are provided individual  
 hook and loop connector parts which have a generally L-  
 shape with sides paralleling both the end edge and the  
 lateral edge of the insert. With this L-shaped  
 construction, locking interconnection with the outer  
 20 garment is adjustable over a range of positions to  
 accommodate varying sizes of infants.

#### DESCRIPTION OF THE DRAWING

In the accompanying drawing:

25 FIG. 1 is a perspective view of an infant's  
 garment with a throw away diaper insert in accordance  
 with the present invention;

FIG. 2 is an elevational view of the garment  
 of FIG. 1 showing it partially released;

30 FIG. 3 shows a front view of an infant's  
 garment modified for practicing the invention;

FIG. 4 shows the modified infant's garment of  
 FIG. 3 with the insert in place;

1           FIG. 5 is a view similar to FIG. 4 showing  
part of the insert turned back and disconnected from  
the infant's garment; and

5           FIG. 6 shows the infant's garment and insert  
in separated spaced apart relationship.

#### DESCRIPTION OF A PREFERRED EMBODIMENT

Turning now to the drawings and particularly  
FIGS. 1 and 2, the diaper arrangement of the present  
10 invention enumerated generally as 10 is seen to include  
in its major parts an outer pants-like garment 12  
preferably what is termed a diaper wrap, which will be  
hereinafter referred to as a garment, within which a  
disposable throw-away diaper insert 14 is unitarily and  
15 releasably secured for acting as diaper absorbing  
liquids while preventing substantial wetting of the  
garment. Also, as will be described, the combination  
garment and diaper insert can be quickly placed on an  
infant and just as quickly removed, while the throw  
20 away insert can be removed from the garment separately  
for disposal.

As can be seen best in FIG. 3, the garment 12  
which is preferably what is sometimes termed a diaper  
wrap or training-wrap is typically constructed of a  
25 soft-to-the-touch textile fabric, such as cotton. The  
garment is generally rectangular and elongated with the  
two end edges 16 and 18 provided with an elastic so  
that they are shortened from the maximum width. In  
addition, the two longitudinal sides are curved  
30 inwardly as at 20 and 22 in order to accommodate the  
legs of the infant and aid in containing the insert.

What is to be the inner surface of the garment  
in use and identified as 24 in FIG. 3, includes first  
and second hook and loop connector parts 26 and 28,  
35 respectively, adjacent the edge 16 and a lateral edge.

1 Similarly, third and fourth hook and loop connector  
parts 30 and 32 are located adjacent the opposite edge  
18 and respectively adjacent the lateral peripheral  
edges. Each of the connector parts 26-32 are of the  
5 same character (e.g., loop connector parts). Just  
laterally outward from each of the two connector parts  
26 and 28 there are located fifth and sixth connector  
parts 34 and 36, respectively.

On the outside surface of the garment and  
10 respectively closely adjacent the garment end edge 18,  
there are further connector parts 38 and 40 of such  
character as to enable mating with connector part 34  
and 36 (i.e., loop connector).

It is instructive to note at this time that  
15 when the garment is folded from the position shown in  
FIG. 3 to the use position of FIGS. 1 and 2, that  
releasable interconnection of the garment sides is  
achieved by the connector parts 38 and 40 mating with  
connector parts 34 and 36.

20 Returning now particularly to FIGS. 5 and 6,  
the throw-away diaper insert 14 is seen to include an  
elongated member of geometry and dimensions  
substantially similar to those of the garment. That  
is, the insert is generally rectangular with two narrow  
25 opposite end edges 42 and 44 with the long side edges  
being curved inwardly toward each other as at 46 and  
48. Preferably the insert 14 is constructed of  
multiple layers of an absorbent flushable paper which  
are unitarily secured together along the peripheral  
30 edges by a line of stitching 50, for example.

Alternatively, the paper layers composing the diaper  
insert may be secured at their edges by an adhesive.

Adjacent each corner of the insert, there is  
provided a generally L-shaped hook and loop connector  
35 part 52, its parts extending generally parallel to both

1 the end edge and adjacent lateral edge. The connector  
parts 52 are all complementary to the connector parts  
26-32 mounted on the garment 12.

5 In assembly the garment 12 is laid out flat as  
in FIG. 6 with the inside surface 24 facing upward.  
The diaper insert 14 is then laid down onto the garment  
with insert connector parts 52 being releasably secured  
to the garment connector parts 26-32. The combination  
10 garment and diaper insert may now be placed on the  
infant and the garment connector parts 38, 40 connected  
to connector parts 34, 36 holding the assembly on the  
infant.

The connector referred to herein as a hook and  
loop connector is well known and sold under the trade  
15 designation Velcro.

Although the invention has been described in  
connection with a preferred embodiment, it is  
understood that those skilled in the appertaining arts  
may make changes that come within the spirit of  
20 invention as described and within the ambit of the  
appended claims.